

## In the Claims

**1. (currently amended)** A process for the preparation of a polyolefin nanocomposite which comprises melt mixing a mixture of a) a polyolefin, b) a filler and c) a non-ionic surfactant,

wherein the filler is a natural or synthetic phyllosilicate or a mixture of such phyllosilicates or a layered hydroxycarbonate and where the filler is not an organically modified clay and

wherein the non-ionic surfactant is a sorbitan ester, a dimethylsiloxane-ethylene oxide-block copolymer or a poly(methyl methacrylate)-block-poly(oxyethylene) copolymer.

**2. (canceled)**

**3. (original)** A process according to claim 1, wherein the filler is a layered silicate clay or a layered hydroxycarbonate.

**4. (original)** A process according to claim 1, wherein the filler is a montmorillonite, bentonite, beidelite, mica, hectorite, saponite, nontronite, sauconite, vermiculite, ledikite, magadite, kenyaite, stevensite, volkonskoite, hydrotalcite or a mixture thereof.

**5. (canceled)**

**6. (canceled)**

**7. (canceled)**

8. **(currently amended)** A process according to claim ~~[[7]]~~1, wherein the sorbitan ester is an ester of sorbitol or an ethoxylated sorbitan with a C<sub>12</sub>-C<sub>25</sub>carboxylic acid.

9. **(original)** A process according to claim 1, wherein the polyolefin is polyethylene or polypropylene or copolymers thereof.

10. **(original)** A process according to claim 1, wherein the filler is present in an amount of from 1 to 15 %, based on the weight of the polyolefin.

11. **(original)** A process according to claim 1, wherein the non-ionic surfactant is present in an amount of from 0.1 to 7.5 %, based on the weight of the polyolefin.

12. **(original)** A process according to claim 1, wherein the melt mixing occurs between 120 and 290°C.

13. **(currently amended)** A process according to claim 1~~[[,]]~~ comprising melt mixing~~in addition,~~ besides components (a), (b), ~~and (c)~~~~[[,]]~~ and further additives.

14. **(currently amended)** A process according to claim 13, ~~comprising as~~wherein the further additives are selected from the group consisting of phenolic antioxidants, light-stabilizers, processing stabilizers, pigments, dyes, plasticizers, compatibilizers, toughening agents, thixotropic agents, levelling assistants, acid scavengers and/or metal passivators.

15. **(original)** A process according to claim 1, wherein the mixture of the filler and the non-ionic surfactant, and where applicable further additives, are added to the polyolefin in the form of a master batch which contains the mixture in a concentration of from 2.5 to 40% by weight.

**16. (original)** A polyolefin nanocomposite obtained by a process according to claim 1.

**17. (currently amended)** A nanocomposite comprising a melt mixture of

- a) a polyolefin which is susceptible to oxidative, thermal or light-induced degradation,
- b) a filler,
- c) a non-ionic surfactant~~[[,]]~~ and
- d) an additive selected from the group consisting of phenolic antioxidants, light-stabilizers, processing stabilizers, pigments, dyes, plasticizers, compatibilizers, toughening agents, thixotropic agents, levelling assistants, acid scavengers ~~and~~ metal passivators and/or mixtures thereof,

wherein the filler is a natural or synthetic phyllosilicate or a mixture of such phyllosilicates or a layered hydroxycarbonate and where the filler is not an organically modified clay and

wherein the non-ionic surfactant is a sorbitan ester, a dimethylsiloxane-ethylene oxide-block copolymer or a poly(methyl methacrylate)-block-poly(oxyethylene) copolymer.

**18. (currently amended)** An article comprising a~~from~~ polyolefin nanocomposite prepared according to claim 1.

**19. (canceled)**

**20. (new)** A process according to claim 13, wherein the further additives comprise 0.01 to 10% by weight of a nucleating agent.